OHSZ
371.6
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LIST OF APPARATUS

Required to perform the Experiments in the Elementary Science of the Fifth Form Public School Course, and of the Lower School of the High School.

	Probable Cost.
1 Metric Scale, one foot long. The ordinary School Rules graduated in inches and centimeters will answer	$0 02
1 Metric Stick	0 50
1 Dissected Litre Block	2 00
1 Test Tube on Foot	0 10
1 Pinch-Cock	0 15
1 Burette, Mohr's, 50 C. C. graduated in tenths	2 00
1 Measuring Cylinder, 100 C. C. graduated	0 80
3 Beakers, different sizes	0 55
1 Air Pump and Receiver	10 00
1 Elastic Rubber Balloon. A toy balloon answers well	0 10
1 Pendulum Bob	0 25
1 Tuning Fork, Simple Form	0 20
2 Bar Magnets	0 50
1 Physical balance, with set of Metric Weights	8 50
1 Spirit Lamp or Bunsen Burner	0 40
1 Caliper, Simple Form	0 50
1 Glass Battery Jar, 9 in. deep, 8 in. diam	0 50
1 Mortar and Pestle	0 35
½ Pound Glass Tubing, assorted sizes	0 50
2 Thistle Tubes Each 15	0 30
1 Transmission of Pressure Apparatus	0 75
1 Archimedes Principle	1 75
1 Globe for weighing air	3 00
1 Barometer Tube, heavy Glass	0 50
1 Mariotte's Law Tube	1 50
1 Retort Stand, (two rings)	0 50
3 Small Florence Flasks with perforated rubber corks to fit	0 45
1 Florence Flask with wide mouth	0 25
1 Hydrometer Jar	0 45
1 Rubber Cork with two holes to fit Florence Flask with large mouth	0 15

		Probable Cost.
1	Weighted Wooden Prism, 1 square Centimetre in sections	$0 25
2	Grenet Cells ..... Each $2.50	5 00
1	Ball and Ring	1 00
	Compound Bar	1 00
1	Thermometer, graduated in both Centigrade and Fahrenheit Degrees	1 00
1	Calorimeter	2 00
1	Conductometer	1 50
1	Tripod	0 40
1	Horse-shoe Magnet	0 25
1	Compass	0 25
1	Dipping Needle	2 50
1	Decomposition of Water Apparatus	1 50
1	Bar, Soft Iron (round, 6 in. long)	0 20
1	Electric Bell, (small)	1 00
1	Plane Mirror, (small)	0 25
1	Concave Mirror	1 50
1	Prism	0 50
1	Lift Pump, Glass Model	1 25
1	Force Pump " "	1 25
1	Hydraulic Press, Glass Model	2 00
1	Pneumatic Trough	0 40
4	Glass Bottles, (Pickle bottles will answer)	0 10
4	Glass Slips, 2 inches square, to cover mouth of bottles	0 05
1	Filter Funnel	0 10
2	Test Tube Cleaners	0 20
2	Doz. Test Tubes 6 in. x $\frac{5}{8}$ in. with 3 perforated rubber corks to fit	0 50
1	Evaporating Dish	0 20
3	Hand Glass Test Tubes	0 30
1	Test Tube Rack	0 25
2	Test Tube Clamps, (wire)	0 30
4	Reagent Bottles 4 oz	0 50

SUNDRIES.

File, 3 cornered		0 10
Rubber Tubing for connections		0 50
Sheet Rubber	Per sq. foot	0 25
Wire Gauze	" "	0 15
Insulated Copper Wire		0 10
Sealing Wax	Large stick	0 25
Iceland Spar		0 65
Mica		0 10
Sheet Zinc and Sheet Copper, (Pair Elements)		0 15

	Probable Cost.
2 Small Vises for clamping wires	$0 80
Piano Wire, 1 spool	0 10
Lodestone, small	0 50
Mercury, 2 lbs	2 00

Chemicals.

½ lb. Zinc, granulated, ½ lb. Iron filings.
½ lb. Pot. Chlorate, ¼ lb. Manganese Dioxide.
½ lb. Ammon. Chloride, ¼ lb. Lime.
1 lb. Marble, (Limestone will answer).
1 oz. Yellow Phosphorus, 2 oz. Red Oxide of Mercury.
2 oz. Caustic Potash, 8 oz. Limewater.
1 Book each, red and blue Litmus Paper.
6 oz. each of Hydrochloric, Nitric, and Sulphuric Acids.
2 oz. Roll Sulphur, 1 Package Filter paper, (round).
½ gal. Battery Fluid for Grenet cells, 6 oz. Liquor Ammonia.

Botany and Zoology.

For the work in Botany and Zoology it is desirable that each Pupil should have a pocket magnifier (30-50 cents). A compound microscope ($11.00) should also form part of the school equipment for this work. These, together with a dozen glass slips and cover glasses, and a couple of needles mounted in wooden handles will be found to be all that is necessary for the course. Breeding cages for observing the development of insects may be made from waste crayon boxes or soap boxes by covering one side or end with mosquito netting or a pane of glass.

General.

A small cupboard should be provided for storing apparatus and chemicals, and a simple laboratory table for carrying out experiments should be in every school where there is no laboratory.